



**WORKPLACE BROCHURE**

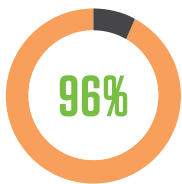
# WHAT IS THE IOWA STEM TEACHER EXTERNSHIPS PROGRAM?

The Iowa STEM Teacher Externships program aims to build bridges between Iowa's workplaces and STEM educators across the state by equipping them to work at local businesses, organizations and other workplaces alongside knowledgeable and skilled employees.

Since the program launched in 2009, more than **300** Teacher Externs have worked at **100+** Iowa workplaces, building long-lasting school+business partnerships across Iowa that provide educators with the ability to improve student STEM experiences as well as:

- Create lasting partnerships between business and industry and local schools.
- Match educated and skilled teachers as participants and contributors to a workplace's needs.
- Support the local workforce by providing students with STEM career information about workplaces in their community.
- Gain publicity through the program's promotion, officially recognizing the workplace's commitment to STEM education and economic development in Iowa.

## THE FACTS:



of Workplace Hosts agree or strongly agree that "Teacher Externs provided significant contributions."

Recent Workplace Hosts estimate anywhere from

**\$30,000** to  
**\$250,000**

as a range of the monetary value of a Teacher Extern's contributions.



of Workplace Hosts agree or strongly agree that "Teacher Externs provided beneficial outside viewpoints."

**BE A HOST  
TODAY**

[www.iowaSTEM.gov/Externships](http://www.iowaSTEM.gov/Externships)

# WHAT TO EXPECT

## Proven Value

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Workplace Hosts have the opportunity to work with some of Iowa's most talented STEM educators. By opening the door to a Teacher Extern, Hosts help build a partnership that will continue to enhance not only the workplace, but also the community's future workforce.

Teacher Externs have worked on high-level workplace projects in a variety of industries across the state. From working with a continuous improvement expert in surgical units at a regional hospital to mussel diving, to water quality monitoring and mapping machine efficiencies at major manufacturing businesses, Teacher Externs can offer uncommon expertise and save Hosts time and money.

## Workplace Host Expectations

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Teacher Externships are full-time professional development experiences that operate during six weeks in the summer. The Host will identify a hands-on project that contributes to an organization's bottom line.

A flexible work schedule may be negotiated between the Workplace Hosts and Teacher Externs, but Teacher Externs must devote 30 days at the Workplace Host site to complete the experience.

Hosts typically cost-share at half of the total per-teacher costs through a tax-deductible donation of \$3,000.

## A Qualified Match

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Our program coordinators match qualified teacher applicants to Hosts in the communities in which they teach based on the teacher applicant's interests and skills as well as the Host's needs.



# WHAT DO TEACHER EXTERNS DO?

## Amanda Ohgo, Science Teacher Norwalk Senior High School



Amanda was provided a variety of experiences all focused around plants where she seeded, transplanted, sample collected and learned about the molecules of interest in the greenhouse. She also worked in the lab preparing samples for testing and propagating plants.

## Brandon Brooks, Technology Teacher Edward Stone Middle School



Brandon worked with John Deere's Welding Engineers for their Round Baler line. He developed preventative maintenance plans for the robot cells and ventilation systems. He also assisted the welding team in troubleshooting and learned some basic robot programming.

## Gabe Bakker, Mathematics Teacher Pleasantville High School



"Technology is used everyday in my experience. All employees have to be trained and skilled with different computer programs to help make their jobs and processes better. These skills should be taught in every class in the high school because students need to be proficient in regards to technology."

Gabe worked as part of Vermeer's Continuous Improvement team evaluating the efficiency of different processes in the plant. He was involved in projects that assessed the relocation of assembly lines as different parts of the plant were renovated.



## WATCH ONLINE

Take an inside look at more Teacher Externships by watching the videos at [www.iowaSTEM.gov/Externships/Videos](http://www.iowaSTEM.gov/Externships/Videos)

# WHAT DO WORKPLACE HOSTS THINK?

## Pella Corporation

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"It was an excellent decision ... our Teacher Extern did a lot of research and created an amazing database that we had wanted to do for several years but had not found the time. Not only did she do this, she also came up with graphs for figuring out some future costs that will help us immensely in marketing our services."

## Diamond Vogel Paints

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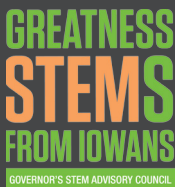
"All of our Teacher Externs have seemed to really grab hold of various ways to use their Diamond Vogel experience in their teaching—that is a big reward."

## Siemens Energy

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### SIEMENS

"Having a Teacher Extern in the plant makes a difference. Someone who is used to teaching becomes a student. That student has reason to question why we do things a certain way, causing us to look at things from a different perspective."



### The Iowa Governor's STEM Advisory Council

The Iowa Governor's STEM Advisory Council was created by Executive Order #74 of Governor Terry E. Branstad in July 2011.

The STEM Council's overarching goal is to boost student interest and achievement in STEM subjects and build a stronger workforce pipeline to meet the STEM career demand in Iowa.

# OUR PARTNERS



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